Dispensing Peristaltic Pump



Features

Suitable for large flow rate, high efficiency, high precision filling.

Servo motor drive, accurate control, strong driving force.

304 stainless steel drive housing can support the filling line.

New flow rate mode, can be used for continuous transferring.

Model Number

F6-3L/DZ25-3L

F6-6L/DZ25-6L

F6-12L/YZ35

	Technical S	pecifications	
	F6-3L: 2.11~3600 mL/min	Control method	Touch screen and Mechanical keypad
Flow rate range	F6-6L: 3.0~6000 mL/min	Keypad lifetime	300,000 times
	F6-12L: 0.0069~12 L/min	Start/stop,	Passive switch signal, such as foot pedal switch
Speed range	1-600 rpm	direction signal	Active switch signal: 5V, 12V and 24V for option
Speed resolution	0.01 rpm	Output interface	Output motor working status (Open-Collector output)
Dispensing volume range	0.1-9999.99 mL	Communication interface	RS232, RS485 support Modbus protocol (RTU mode)
Dispensing volume resolution	0.01 mL	Power supply	AC 220V±10% 50Hz/60Hz (Standard)
Dispensing time	0.1-9999.99 s	r ower supply	AC 110V±10% 50Hz/60Hz (Optional)
Pause time	0.1-9999.99 s		F6-3L: 223×152×200mm
Time resolution	0.01 s	Drive dimension	F6-6L: 283×192×218mm
Copy numbers	1-9999 times, setting '0' means unlimited	d	F6-12L: 302×222×275mm
Back suction angle	0-360°	Drive weight	F6-3L: 5.02kg; F6-6L: 7.85kg; F6-12L: 13.14kg;
Outlet pressure	0.3 Mpa	Power consumption	F6-3L: <80W; F6-6L: <180W; F6-12L: <300W
Dispensing accuracy	<±0.5%	Condition temperature	0-40°C
Motor type	Servo motor	Relative humidity	< 80%
Display	Industrial grade 4.3" color LCD display	IP rate	IP31

	Product Composition and Flow Rate Range									
Drive	Motor Type	Pump Head	Tubing Size	Speed Range(rpm)	Flow Rate(mL/min)					
F6-3L		DZ25-3L	15#, 24#, 35#, 36#		2.11~3600					
F6-6L		DZ25-6L	15#, 24#, 35#, 36#	1-600	3.0~6000					
F6-12L		YZ35	26#, 73#, 82#		6.9~12000					





Drive	Pump	Head	Tubi	na		Volum nL)	e Fillin	g Time	(s) Fi	lling Acc		Output(ocs/min) Mo	tor Spee	d(rpm)		
			13).1		0.5		(±%) ±5ul		10 00	40		204.08	300		
			13			.3		0.7		1.5			35		426.251			
			13			.5		1		0.8			30		516.08			
			13		0	1		2		0.5			20		517.15			
						1												
			14;			2		1		1			30		446.72			
	YZ15	15x	14;			3		1.5		0.8			24		446.47			
LabF6/F	6 YZ25	15x	19	#		5		1.2		1		2	27		454.91	9		
			16	#		7		1		0.5			30		457.70)5		
			25#/1	5#	1	10		1		1		3	30		303.42	26		
						5#	1	15		1		0.8			30		461.27	73
			25#/1	5#	2	20		1.2		0.5		2	27		518.94	15		
			17#/2	4#	3	30		1.2		0.8		2	27		462.72	25		
			17#/2	4#	5	50		2		0.5		2	20		461.59	95		
			18	#	8	30		2.5		0.5			17		427.27	4		
			18			00		3		0.5			15		446.58			
			15			16		1		0.5			30		443.54			
			24			30		1.2		1.0			27		454.8			
F6-3L	DZ25	-3L	35		1	50		4		0.6			12		447.94			
			36	#	2	00		4		0.6			12		481.80)2		
			15#		80			4 0.4			12			396.800				
F6-6L	DZ25	-6L	24# 35#			50 00		4 3.2		0.4		12 14			440.70			
			36			00		3.5		0.5		13			473.20			
			26			50		3		0.5			15		423.25			
F6-12L	YZ3	35	73			00		3		0.5			15		457.80			
			82	#	5	00		3		0.5			15		458.45	51		
		F6	Series	Fillir	ng Acc	uracy	/ Refe	rence	Parai	meter	(Medi	a is w	ater)					
Drive	Pump Head	Tubing	Filling Volume	Filling				Actual	Filling	Volume	e(mL)					ling		
transmin and the second	Head		volume	Time	15.97	15.97	16.00			- Control of the Cont		16.02	16.01	15.97	-0.50%	ігасу		
		15*	16mL	1s	15.98	16.00	16.04	16.08		15.95			15.97		-0.50%	0.50%		
					29.98		30.20											
F6-3L	DZ25-3L	24*	30mL	1.2s	30.23	30.24				30.23					-0.20%	1.00%		
		0.51	4501	4.0	149.50	149.50	150.10	150.00	149.80	149.00	149.70	149.50	150.10	149.60	0.450/	0.600		
		35*	150mL	4s			149.70								-0.1070	0.60%		
		26*	200mL	4s	199.70	200.30	200.10	200.30	200.00	200.00	200.70	200.80	200.70	200.40	-0.67%	0.079		
		36*	200IIIL	45	200.30	200.00	200.30	200.80	200.90	200.70	200.80	200.40	200.50	200.20	-0.67%	0.07		
		15*	80mL	4s	80.2	80.0	80.3	80.2	80.1	80.1	80.2	80.1	80.2	80.1	-0.125%	0.375		
		10	002		80.1	79.9		79.9			19.9	80.1	80.1	80.0				
FC 61	D705 61	24*	150mL	4s	149.9	150.2				150.3					-0.067%	0.200		
F6-6L	DZ25-6L				149.9	150.1				150.0								
		35*	200mL	3.5s			200.2								-0.400%	0.100		
					199.5	199.2	199.5	199.9			199.8	199.3		199.9				
		36*	300mL	3.5s	300.4										-0.167%	0.200		
					300.2	300.0	300.1	300.2			299.5	300.5		300.6				
		26*	150mL	3s	149.3	150.3	149.6	150.2	150.5	140.0	150.5	140.0	150.5	150.0	-0.47%	0.339		
										149.8								
	YZ35	73*	300mL	3s	300.8	299.8				300.2					-0.07%	0.279		
F6-12L	1200	203 73			. 71 11 1	4 22 22		www.d	000.0	0.00.0	000.7	000.0	0.00.0	0.00.0				
F6-12L	1200											499 7	499 2	498.4	-0.44%	0.389		



Easy Load Pump Head

YZ35-PPS,YZ35(Aluminum Alloy)



Model Number

YZ35-PPS, YZ35(Aluminum Alloy)







Product Introduction

YZ35 pump head with aluminum alloy or PPS housing material. 304 stainless steel rollers assembly achieve high precision transferring liquid. Adaptive tubing cartridge structure makes it more easy to load the tubing.

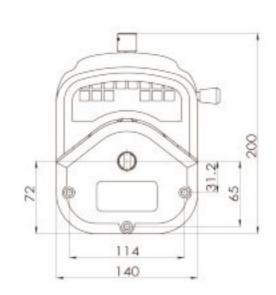
YZ35 Pump Head Tubing Holder Advantages

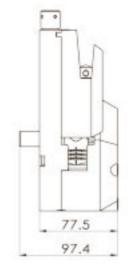
01/Fix the tubing; lower the tubing shaking duringworking; improve the stability and accuracy of flow rate.

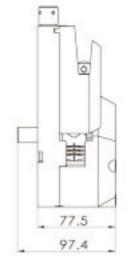
02/ Prevent the tubing wear, extend the tubing

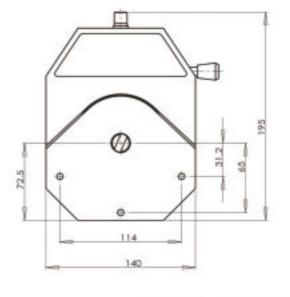


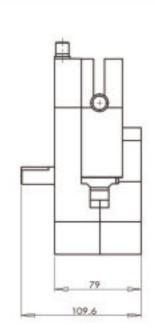
Dimension Drawing(Unit: mm)











YZ35-Aluminum Alloy

OEM-J24 Series/YZ35

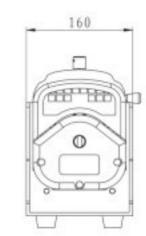


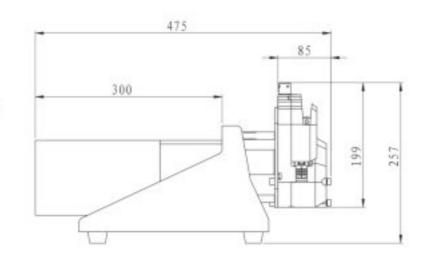
YZ35-PPS

Product Introduction

OEM-J24 use AC gear motor drive, YZ35 pump head is very easy to install tubing. Suitable for laboratory sampling, filling, ultrafiltration, big flow rate pumping and cement additives. It can be used separately, also can combine with other equipment.

Dimension Drawing (Unit: mm)





Technical Specifications											
		ID×Wall		Flow Rate(mL/min)	D		Material/Weight(kg)				
Pump Head	Tubing	Thickness(mm) mL/		(0-600rpm)	Power Supply	Motor Type	Aluminum Alloy	PPS			
	26#	6.4×3.3	6.9	<4200	Three phase	AC motor with fixed speed or adjustable		1.50			
YZ35	73#	9.6×3.3	12.3	<7400	220V/380V for option						
	82#	12.7×3.3	20	<12000	ioi option	speed					



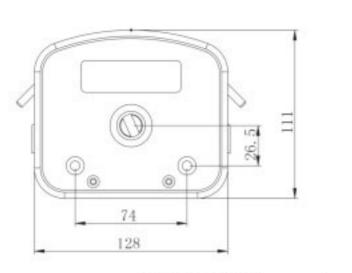


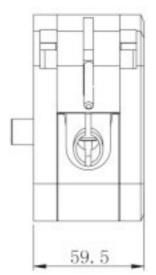
Fast Load Pump Head

DZ25-3L,DZ25-6L

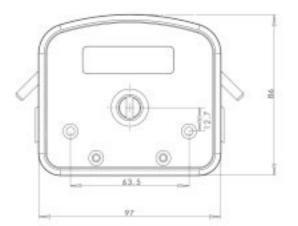


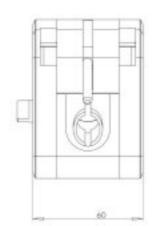
Dimension Drawing(Unit: mm)





DZ25-6L Dimension





DZ25-3L Dimension

Product Introduction

Easy operation, change tube rapidly. The house material is PPS (polyphenylene sulfite). 304 stainless steel rollers. DZ25 pump head use 2.4mm wall thickness tube, the flow rate range is 0.2-6000mL/min. This pump head is suitable for high viscous liquid which include granule and floc. It also suitable for high pressure request. New cartridge structure design, can use the special connector, connect low cost tubing outside the pump head to save cost; also can use flexible tube card, meet hygiene requirement.

Model Number

DZ25-3L, DZ25-6L(Aluminum Alloy)

Tubing Installation Procedure

Put the tubing with cartridge or connector into pump housing.

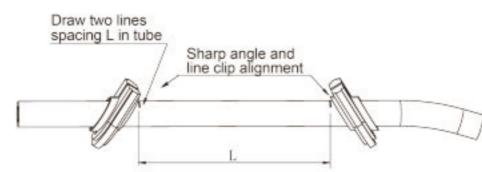


1.Lift both side levers, take off the upper block.



3.Install the upper block, put down the levers to lock the block.





Tubing Clamp

DZ25-6L: the tubing length is 125mm between both tubing clamps. DZ25-3L: the tubing length is 90mm between both tubing clamps.

	Technical Specifications											
		Tubing Clamp		Tubing	Flow Rate (mL/min)							
Model No.	Housing Material	Material	Tubing Sizes	ID×Wall Thickness	(0.1–600rpm)	Weight (kg)						
			15#	4.8×2.4(mm)	0.3~1800							
	Aluminum alloy/PPS	PP	24#	6.4×2.4(mm)	0.55~3300	1 06/0 06						
DZ25-6L			35#	$7.9 \times 2.4 (mm)$	0.8~4800	1.86/0.86						
			36#	9.6×2.4(mm)	1~6000							
			15#	$4.8 \times 2.4 (mm)$	0.211~1264							
D705 01	DDC/DCF		24#	6.4×2.4(mm)	0.385~2310	0.5						
DZ25-3L	PPS/PSF	PP	35#	7.9×2.4(mm)	0.508~3050	0.5						
			36#	9.6×2.4(mm)	0.6~3600							

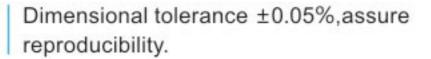


Peristaltic Pump Accessories

A Filling nozzle



When transferring or dispensing liquid reduce splashing and dropping off maximumly, most out of the splash reduction.



Name	Material	Tube
Filling nozzle	304/316 SS	13#/14#, 19#, 16#, 25#/15#, 17#/24#/26#, 18#/35#,36#/73#, 82#

B One way checkvalve



Avoid liquid drop off after filling and transferring.

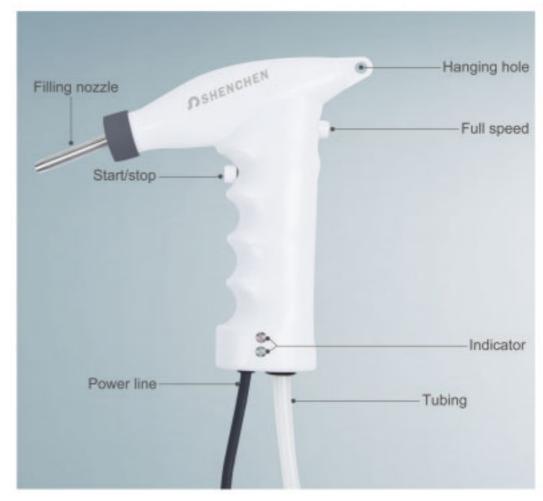
C Filling Countersunk



Used for the output of tube, preventing the tube floating or absorbing the wall of container.

Name	Material	Tube
Counter sunk	304/316 stainless steel	13#, 14#, 19#, 16#, 25#, 17#,18#, 15#, 24#, 35#, 36#, 26#, 73#, 82#

Handling Dispenser



Fillio	na nozzle ar	nd tubing cap	
1 11111	ng nozzie ai	id tubing cap	
Filling nozzle size	13#	14#	19#
Inner diameter	3mm	3.5mm	4.5mm
Picture	•	•	•
Filling nozzle size	16#	15#/25#	17#/24#
Inner diameter	5mm	7mm	9mm
Picture	•	•	•
Tubing size	17#	18#	Plum
Inner diameter	9.6mm	11.1mm	blossom cap
Picture			0

Based on ergonomics design, elegant appearance, grip feeling comfortable, easy operation. Connect to peristaltic pump external control interface, with start/stop and full speed control, can realize transferring and dispensing function. Power supply and working indicator, show the dispenser working status. With hanging hole, can be hang up when do not use.

Foot pedal switch



Use the pump without hand, all pumps with 2.0m power line.



F Tube connector







"Y" tube connector



Tee tube connector



Reducer tube connector

Benchtop tubing cutter



"L" tube connector

Tube 13" 14" 19" 16" 25" 17" 18" 15" 24" 35" 36* 26* 73* 82*

G PH Controller

工业在线PH/ORP检测仪 2018-01-01 92:01



Stainless steel blade, makes right-angle cuts in several sizes of plastic tubing.

J Support stand

Work with peristaltic pump, can control the liquid PH value, add acid or alkali automatically. Function:

1. Liquid: Acid-Base Solutions

2. PH value: 0-14PH 3. Set up target PH value

H Wireless remote

4. Add acid or alkali liquid automaticall

5. Control: RS485, 4-20mA

6. Power supply: DC24V (AC220V for option)

7. Suitable temperature: 0-60°C



When applied in the dispensing line, it can detect weather there is filling bottle in the production line. When the bottle approach the sensor side, the switch action will be made without any mechanical contact or pressure, thereby providing filling control order to the pump. In the same way, when no filling bottle is detected, the stop filling control order is provided to the pump.



The multiple filling stand is suitable for more than 2 channels filling. It can hold 2-8 filling nozzles. We can customize the suiatble one according to your request.



Peristaltic Pump Tubing

Silicone Tubing

- | Platinum-Cured Silicone Tubing
- | Slightly clarity, smooth surface, low protein binding levels, fewer potential leachable .
- Ideal for pharmaceutical and biotechnology use, suitable temperature range −51~238 ℃.

	Micro Flow Rate Tubing											
Tubing	Size	0.13×0.86	0.5×0.86	0.86×0.86	1.52×0.86	2.06×0.86	2.79×0.86	1×1	2×1	3×1	2.4×0.8	
Tubing section (1:1)	S	•	•	•	0	0	0	0	0	0	0	
Wall thic (mn			0.86							1.0 0.8		
Inside dia (mm		0.13	0.5	0.86	1.52	2.06	2.79	1.0	2.0	3.0	2.4	
Maximum Conti-						0.1						
(Mpa)	Interm- ittent					0.1						

Basic Flow Rate Tubing												
Tubing 8	Size	13*	14*	19*	16*	25*	17#	18*	15*	24*	35*	36*
Tubing section (1:1)	s	•	0	0	0	0	0	O	0	0	0	0
Wall	mm					1.6					2.4	1
thickness	inch	1/16					3/32					
Inside	mm	0.8	1.6	2.4	3.1	4.8	6.4	7.9	4.8	6.4	7.9	9.6
diameter	inch	1/32	1/16	3/32	1/8	3/16	1/4	5/16	3/16	1/4	5/16	3/8
Maximum	Conti- nuous		0.17 0.14 0.1 0.07						0.17 0.14			4
(Mpa)	Interm- ittent		0.	27		0.24	0.14	0.1	0	.27	0.2	4

Industrial Tubing											
Tubing	Size	26*	73*	82*	86#	90*	88*	92*			
Tubing section (1:1)	S										
Wall	mm		3.3		6	5.3	4	.8			
thickness	inch		1/8		1	/4	3	3/16			
Inside	mm	6.4	9.6	12.7	9.5	19	12.7	25.4			
diameter	inch	1/4	3/8	1/2	3/8	3/14	1/2	1			
Maximum pressure	Conti- nuous		0.2		0.25						
(Mpa)	Interm- ittent		0.27								



Peristaltic Pump Tubing

SAINT-GOBAIN Tubing: Tygon, PharMed BPT, Norprene etc

	A Tygon3350	B Tygon E-3603	O Norprene Chemical	PharMed	■ Norprene A-60-F
Formulation	Tygon3350	Tygon R-3603	Norprene Chemical	PharMed	Norprene A-60-F
Application	Pharmaceutical, cosmetic, medical and auto- analysis application.	General laboratory, food & beverage, biopharm- aceutical, analytical instruments.	Elcellent for chemical processing and general industrial applications. Food and beverage applications where extractables are a concern.	Cell and tissue culture work and pharmaceutical uses. Also good for light- sensitive samples.	Ideal for the food, dairy and beverage.
Advantages	Ultra-smooth; minimizes bacterial growth. Good for mild to medium concentration bases, salts and alcohols; odorless, tasteless, and nontoxic. Transparent.	Inexpensive tubing for general lab application. Nonaging,nonoxidizing. Clear for easy flow monitoring. Handles virtually all inorganic chemicals. Low gas permeability. Smooth bore; good for viscous fluids. High dielectric constant.	Norprene thermoplastic elastomer outer jacket with chemically inert Tygon® 2075 inner bore for excellent chemical resistance. Plasticizer-free to guard against extractables. Long flex life. Opaque beige.	Great for tissue and cell work-nontoxic and nonhemolytic; long service life minimizes risk of fluidexposure; reduces tubing costs and pump downtime. Opaque to UV and visible light to protect light-sensitive fluids. Heat sealable, bondable, and formable. Extremely low gas permeability.	Heat, ozone, and UV light resistant. Nonaging; nonoxidizing; superior acid and alkali resistance. Opaque beige.
Application Suitability		ACIDS GOOD ALKALIES GOOD ORGANIC NO PRESSURE GOOD VACUUM GOOD VISCOUS EXCELLENT FLUIDS STERILE GOOD		ACIDS GOOD ALKALIES GOOD ORGANIC NO PRESSURE GOOD VACUUM EXCELLENT VISCOUS GOOD STERILE FLUIDS EXCELLENT	
Physical characteristics		Thermoplastic. PVC-based material with plasticizer. Firm (stiff) material. Transparent, clear.		Thermoplastic elastomer. Polypropylene-based material with USP mineral oil. Excellent tensile strength. Firm(stiff) material. Opaque, beige.	
Temp. range	−75 to 450° F (−60~232° C)	−58 to 165° F (−50~74° C)	-76 to 165° F (-60∼74° C)	-60 to 270° F (-59~135° C)	-60 to 275° F (-51~135° C)
Meets classifications	FDA 21 CFR 177.2600 USP Class VI EP 3.1.9. Exceeds 3A standards Manufactured according to GMP.	FDA 21 CFR 175.300	None.	None.	FDA 21 CFR 177.2600 NSF listed (Standard 51) Manufactured according to GMP.
Cleaning/ Sterilization	Ethylene oxide gamma irradiation, or autoclave for 30 min, 15psi (1 bar).	Unaffected by commercial sanitizers (with recommended procedures) Sterilize with ethylene oxide (ETO) or autoclave. To autoclave: Coil loosely in nonlinting cloth or paper, autoclave at 121°C (250°F). 1KG/cm³ (15psi) for 30 minutes (tubing will appear milky); air dry at max 66°C (150°F) for 2 to 2 ½ hours until clear.	Sterilize with ethylene- oxide(ETO), autoclave or gamma irradiation up to 2.5Mrad. Repeated autoclaving will not affect overall life.	Autoclave, ethylene oxide, or gamma irradiation.	Autoclave.





Peristaltic Pump Tubing

Norprene A-60-G

C Tygon F-4040-A

	TUBING THE TUBING THE TUBING	GASOLINE		829	
Formulation	Norprene A-60-G	Tygon F-4040-A	Tygon LFL	TYGON 2475	Viton
Application	For applications requiring excellent chemical, heat, ozone, and ultraviolet (UV) light resistance.	Fuels and industrial lubricants-gasoline, kerosene, heating oils, cutting compounds, and glycol-based coolants. Resists most hydrocarbons.	General laboratory use, provides longer life with peristaltic tubing pumps.	Sensitive fluid transfer applications requiring high purity.	Acid and solvent tran- sfer, high-temperature.
Advantages	Best choice for vacuum/ pressure applications. Offers longest life with good flow consistency. Heat and ambient ozone resistant. Good resistance to acids/alkalies. Black color hides dirt and dust. Heat sealable, nonaging, and nonoxidizing. High dielectric constant.	Resists embrittlement and swelling, ozone-and UV-resistant, with low-extractability. Translucent yellow.	Longest life of all Tygon® peristaltic tubing (1000hrs). Nonaging, nonoxidizing. lear for easy flow monitoring. Broad chemical resistance; low gas permeability. Smooth bore. Good for viscous fluids. High dielectric constant.	Plasticizer free, smooth inner surface (inhibits particulate buildup and bacterial growth), safely disposed of through incineration and nontoxic. Transparent.	The most chemical resistant tubing. Registand to corrosives, solvents, and oils at elevated temperatures. Low gas permeability.
Application Suitability	ACIDS GOOD ALKALIES GOOD ORGANIC NO PRESSURE EXCELLENT VACUUM EXCELLENT VISCOUS EXCELLENT FLUIDS STERILE NO		ACIDS GOOD ALKALIES GOOD ORGANIC NO PRESSURE GOOD VACUUM GOOD VISCOUS EXCELLENT FLUIDS STERILE POOR		ACIDS EXCELLENT ALKALIES EXCELLENT ORGANIC EXCELLENT PRESSURE GOOD VACUUM GOOD VISCOUS GOOD STERILE FAIR
Physical characteristics	Thermoplastic elastomer. Polypropylene-based material with USP mineral oil. Excellent tensile strength. Firm (stiff) material. Opaque, black. Manufactured according to GMP.		Thermoplastic. PVC-based material with plasticizer. Firm (stiff) material. Transparent, clear.		Thermal set rubber. Viton B (67% fluorine) Firm (stiff) material Opaque, black. Manufactured according to GMP.
Temp. range	−60 to 270° F (−59~135° C)	−35 to 165° F (−37~74° C)	−58 to 165° F (−50~74° C)	−94 to 125° F (−70~52° C)	−25 to 400° F (−32~205° C)
Meets classifications	None.	Meets NSF-51 and 3A sanitary standards.	USP Class VI, FDA 21 CFR 175.300	FDA 21 CFR 177.1520, USP 23 Class VI, Manufactured according to GMP.	None.
Cleaning/ Sterilization	Sterilize by autoclave only.	Not recommended.	Sterilize by ETO/autoclave. Coil loosely in nonlinting cloth or paper; autoclave at 250°F(121°C), 15 psi (1kg/cm²), 30 minutes (tubing will appear milky); air dry at max 150°F (66°C) for 2 to 2 ½ hrs until clear.	Ethylene oxide or gamma irradiation.	Sterilization is not recommended.

H Tygon LFL

TYGON 2475

K Viton

